## SUPERSTRUCTURE REINFORCING STEEL LENGTHS ARE BASED ON THE FOLLOWING MINIMUM SPLICE LENGTHS

1 OLL	I OFFOM TING INITIATINION 21 FIGE FFING 1112										
BAR SIZE	SUPERSTI EXCEPT A SLABS, P AND BARR	APPROACH ARAPET,	APPROAC	PARAPET AND BARRIER							
	EPOXY COATED	UNCOATED	EPOXY COATED	UNCOATED	RAIL						
#4	2'-0"	1′-9″	2'-0"	1′-9″	2′-9″						
#5	2′-6″	2′-2″	2′-6″	2′-2″	3′-5″						
#6	3′-0″	2′-7″	3′-10″	2′-7″	4'-4"						
#7	5′-3″ 3′-6″										
#8	6′-10″	4′-7″									

CORED	SLAB	S REQ	UIRED
SPAN A	NUMBER	LENGTH	TOTAL LENGTH
EXTERIOR C.S.	2	48′-9¾″	97′-7 <sup>1</sup> /2″
INTERIOR C.S.	18	48′-9¾″	878'-71/2"
TOTAL	20		976′-3″
SPAN B			
EXTERIOR C.S.	2	38′-9³⁄ <sub>4</sub> "	77'-71/2"
INTERIOR C.S.	18	38′-9¾″	698′-7 <sup>1</sup> / <sub>2</sub> ″
TOTAL	20		776′-3″
TOTAL	40		1752′-6″

BAR TY	YPES
S1 1'-9" S2 2'-8"  1	2'-6"  \[ \frac{2}{7''} \]  ARE OUT TO OUT

BILL OF MATERIAL FOR ONE CORED SLAB SECTION																				
SPAN A									SPAN B											
			INTE	RIOR U	NIT	INT	(SIDEW	ALK)	EXT	.(SIDEW	ALK)	INT	ERIOR U	NIT	INT.(SIDEWALK) EXT.(SIDEWALK)			/ALK)		
BAR	SIZE	TYPE	NUMBER		WEIGHT	NUMBER	LENGTH	WEIGHT	NUMBER		WEIGHT	NUMBER	LENGTH	WEIGHT	NUMBER	LENGTH	WEIGHT	NUMBER	LENGTH	WEIGHT
B1	# 4	STR	4	25-2"	67	. 4	25-2"	67	4	25-2"	67									
B2	# 4	STR										4	20'-2"	54	4	20'-2"	54	4	20'-2"	54
S1	# 4	1	8	4'-3"	23	8	4'-3"	23	8	4'-3"	23	8	4'-3"	23	8	4'-3"	23	8	4'-3"	23
S2	# 4	1	98	5′-4″	349	98	5′-4″	349	98	5′-4″	349	78	5'-4"	278	78	5'-4"	278	78	5'-4"	278
* S3	# 4	2				7	5′-11″	28	7	5′-11″	28				6	5′-11″	24	6	5′-11″	24
REINFORCIN		 439 LBS	8		439 LBS.			 439 LBS			355 LBS			 355 LBS.				a		
* EPOXY COATED REINF.STEEL		0 28 LBS.		28 LBS.			0			24 LBS.			24 LBS.							
5 000 PST CONCRETE				6.8 C. Y.		6.8 C. Y.			C 0 C V				5.4 C.Y.			5.4 C. Y.			5.4 C.Y.	
5,000 P.S.I. CONCRETE 1/2" Ø L.R. STRANDS				24			24		6.8 C. Y. 24			15			15			15		

	G BRIDGE ORS
BRIDGE DECK APPROACH SLAB	3781 SQ.FT. 980 SQ.FT.
TOTAL	4761 SQ.FT.

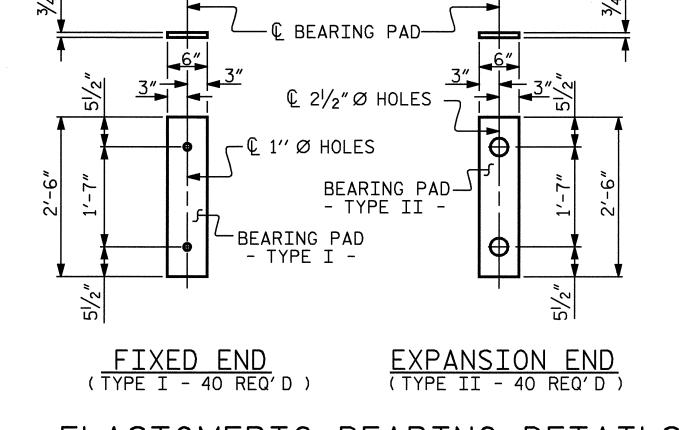
CLASS AA CC	NCRETE
(FOR CONCRETE WEAR	ING SURFACE)
	(CU.YD.)
*CONCRETE WEARING	
SURFACE	62.6

\* PAID FOR BY THE SQ.FT. PRICE FOR "CONCRETE WEARING SURFACE." (4058 SQ.FT.)

GRADE 270 STRANDS						
	1/₂″Ø L.R.					
AREA (SQUARE INCHES)	0.153					
ULTIMATE STRENGTH (LBS.PER STRAND)	41,300					
APPLIED PRESTRESS (LBS. PER STRAND )	30,980					

DEAD LOAD DEFLECTION AND CAMBER								
SPAN A SPAN B								
CAMBER (SLAB ALONE IN PLACE)	2 <sup>5</sup> ⁄ <sub>16</sub> " <b>♦</b>	<sup>15</sup> / <sub>16</sub> " <b>♦</b>						
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD**	5/16″ ▼	1/8″ ▼						
FINAL CAMBER	2″ ♠	<sup>13</sup> / <sub>16</sub> " <b>♦</b>						

\*\* INCLUDES FUTURE WEARING SURFACE



ELASTOMERIC BEARING DETAILS

ASSEMBLED BY : A.L.MEADOWS CHECKED BY : T.A.HARRIS DATE: 7/3/02 DATE: 9/25/02 REV. 10/17/00 RWW/LES REV. 7/10/01 RWW/LES REV. 5/7/03RR RWW/JTE DRAWN BY: WJH 4/89 CHECKED BY: FCJ 5/89

REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. ALL REINFORCING STEEL CAST WITH THE CORED SLAB SECTIONS SHALL BE GRADE 60 AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRESTRESSED CONCRETE CORED SLABS.

NOTES

270 STRANDS AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING

ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW RELAXATION GRADE

RECESSES FOR TRANSVERSE STRANDS SHALL BE GROUTED AFTER THE

TENSIONING OF THE STRANDS.

THE  $2^{1}\!\!/_{2}$   $^{\prime\prime}$   $^{\prime\prime}$  DOWEL HOLES AT FIXED ENDS OF SLAB SECTIONS SHALL BE FILLED WITH GROUT. THE  $2^{1}\!\!/_{2}$   $^{\prime\prime}$  DOWEL HOLES AT EXPANSION ENDS OF SLAB SECTIONS SHALL BE FILLED WITH JOINT SEALER MATERIAL TO  $1\frac{1}{2}$ " ABOVE THE TOP OF DOWELS AND THEN FILLED WITH GROUT.

THE JOINT SEALER MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF TYPE SL LOW MODULUS SILICONE SEALANT. THE 2"Ø BACKER ROD SHALL CONFORM TO THE REQUIREMENTS OF TYPE M BOND BREAKER. SEE SECTION 1028 OF THE STANDARD SPECIFICATIONS.

WHEN CORED SLABS ARE CAST, A POSITIVE HOLD-DOWN SYSTEM SHALL BE EMPLOYED TO PREVENT VOIDS FROM RISING OR MOVING SIDEWAYS. THIS SYSTEM SHALL BE DESIGNED TO BE LEFT IN PLACE UNTIL THE CONCRETE HAS REACHED RELEASE STRENGTH. AT LEAST THREE WEEKS PRIOR TO CASTING CORED SLABS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND COMMENT, DETAILED DRAWINGS OF THE PROPOSED HOLD-DOWN SYSTEM. IN ADDITION TO STRUCTURAL DETAILS, LOCATION AND SPACING OF THE HOLD-DOWNS SHALL BE INDICATED.

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE CORED SLAB UNIT SHALL BE DONE WHEN THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 PSI.

PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE CORED SLAB UNIT

APPLY EPOXY PROTECTIVE COATING TO CORED SLAB UNIT ENDS. FOR EPOXY PROTECTIVE COATING, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC BEARINGS, SEE SPECIAL PROVISIONS.

FOR PRESTRESSED CONCRETE MEMBERS. SEE SPECIAL PROVISIONS.

PLACEMENT OF THE CONCRETE OVERLAY SHALL OCCUR AFTER CASTING THE SIDEWALK.

THE TOP SURFACE OF ALL THE CORED SLAB UNITS SHALL HAVE A  $\frac{3}{8}$ " RAKED FINISH.

> PROJECT NO. B-3450 DURHAM COUNTY STATION: 14+31.00 -L-

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

CONCRETE CORED SLAB UNIT

		SHEET NO.								
١٥.	BY:	S-14								
1			3			TOTAL SHEETS				
2			4			53				
	STR.1 STD. NO. PCS3									